

Title (en)  
POLYMER COMPOUND, LUMINESCENT MATERIAL, AND LIGHT EMITTING ELEMENT

Title (de)  
POLYMERCOMPOUND, LUMINESZIERENDES MATERIAL UND LICHEMITTIERENDES ELEMENT

Title (fr)  
COMPOSÉ POLYMÈRE, MATÉRIAU LUMINESCENT ET ÉLÉMENT ÉMETTANT DE LA LUMIÈRE

Publication  
**EP 1935943 B1 20120328 (EN)**

Application  
**EP 06797981 A 20060914**

Priority  
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Abstract (en)  
[origin: EP1935943A1] This invention provides a luminescent composition comprising a polymer and at least one phosphorescent compound, characterized in that the electronic conjunction chain coefficient  $Z_e$  of the main repeating minimum unit of the polymer falls within the following range:  $0 < Z_e \leq 2.00$  (1) wherein the electronic conjunction chain coefficient  $Z_e$  is defined as a slope obtained by linear approximation of function  $T_m = T_m(1/n_e)$  by the least square method wherein  $n_e$  represents the number of conjugated electrons contained in repeating minimum units; and  $T_m$  represents, for m-mer obtained by bonding repeating minimum units, the lowest triplet excitation energy in each m-mer when the number m is varied from 1 to 3 by one by one. Here in the number of conjugated electrons, only the conjugated electrons present in the main chain of the repeating minimum units are taken into consideration, provided that, when there are a plurality of main repeating minimum units, the minimum  $Z_e$  is used.

IPC 8 full level  
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